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PTO/SB/81 (10-00)

Approved for use through 10/31/2002. OMB 0851-0035

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## POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

|                        |                    |
|------------------------|--------------------|
| Application Number     |                    |
| Filing Date            | June 15, 2001      |
| First Named Inventor   | PANDELISEV         |
| Group Art Unit         |                    |
| Examiner Name          |                    |
| Attorney Docket Number | PHOENIX SCIENTIFIC |

I hereby appoint:

☐ Practitioners at Customer Number   
OR

☒ Practitioner(s) named below:

Place Customer  
Number Bar Code  
Label here

| Name                | Registration Number |
|---------------------|---------------------|
| James C. Wray       | 22,693              |
| Meera P. Narasimhan | 40,252              |
|                     |                     |
|                     |                     |

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

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OR

|   |                        |       |                |     |       |
|---|------------------------|-------|----------------|-----|-------|
| <input checked="" type="checkbox"/> Firm or Individual Name | James C. Wray          |       |                |     |       |
| Address   | 1493 Chain Bridge Road |       |                |     |       |
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| City  | McLean                 | State | VA             | Zip | 22101 |
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| Telephone   | (703) 442-4800         | Fax   | (703) 448-7397 |     |       |

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

### SIGNATURE of Applicant or Assignee of Record

|           |                            |
|-----------|----------------------------|
| Name      | Kiril A. Pandelisev        |
| Signature | <i>Kiril A. Pandelisev</i> |
| Date      | 6/15/01                    |

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ \*Total of \_\_\_\_\_ forms are submitted.

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Kiril A. Pandelisev

Application No./Patent No.: \_\_\_\_\_ Filed/Issue Date: \_\_\_\_\_

Entitled: PROCESS AND APPARATUS FOR PRODUCTION OF SILICA GRAIN HAVING DESIRED PROPERTIES AND THEIR FIBER OPTIC AND SEMICONDUCTOR APPLICATIONSPHOENIX-SCIENTIFIC CORPORATION, an Arizona corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title are attached.  
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

✓ 6/15/01  
Date

Kiril A. Pandelisev  
Typed or printed name  
✓ Kiril A. Pandelisev  
Signature

CEO  
Title

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PTO/SB/01 (10-00)

Approved for use through 10/31/2002. OMB 0851-0032

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**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**

☒ Declaration  
Submitted  
with Initial  
Filing

OR

☐ Declaration  
Submitted after Initial  
Filing (surcharge  
(37 CFR 1.16 (e))  
required)

**Attorney Docket Number**

PHOENIX SCIENTIFIC

**First Named Inventor**

PANDELISEV

**COMPLETE IF KNOWN**

**Application Number**

**Filing Date**

June 15, 2001

**Group Art Unit**

**Examiner Name**

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

PROCESS AND APPARATUS FOR PRODUCTION OF SILICA GRAIN HAVING DESIRED  
PROPERTIES AND THEIR FIBER OPTIC AND SEMICONDUCTOR APPLICATIONS

(Title of the Invention)

the specification of which

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application<br>Number(s) | Country | Foreign Filing Date<br>(MM/DD/YYYY) | Priority<br>Not Claimed  | Certified Copy Attached?   |  |
|--|---------|-------------------------------------|--|--|--|
|  |         |                                     |  | YES  | NO   |
|  |         |                                     | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

| Application Number(s) | Filing Date (MM/DD/YYYY) | <input type="checkbox"/> Additional provisional application<br>numbers are listed on a<br>supplemental priority data sheet<br>PTO/SB/02B attached hereto. |
|-----------------------|--------------------------|---|
| 60/258,494            | 12/29/2000               |   |

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**DECLARATION — Utility or Design Patent Application**Direct all correspondence to: ☐ Customer Number  OR ☒ Correspondence address below

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State VA

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR:

☐ A petition has been filed for this unsigned inventorGiven Name Kiril A.  
(first and middle [if any])Family Name Pandelisev  
or SurnameInventor's  
Signature*Kiril A. Pandelisev*

Date 6/15/01

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ZIP 85233

Country US

NAME OF SECOND INVENTOR:

☐ A petition has been filed for this unsigned inventorGiven Name  
(first and middle [if any])Family Name  
or SurnameInventor's  
Signature

Date

Residence: City

State

Country

Citizenship

Mailing Address

Mailing Address

City

State

ZIP

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☐ Additional inventors are being named on the \_\_\_\_\_ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.